

## EAST Search History

| Ref # | Hits    | Search Query                                | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|-------|------------------|---------|------------------|
| L1    | 1       | "5,913,202".pn.                             | USPAT | OR               | ON      | 2007/05/08 15:00 |
| L2    | 0       | 1 and behalf                                | USPAT | OR               | ON      | 2007/05/08 15:54 |
| L3    | 1       | 1 and trust\$                               | USPAT | OR               | ON      | 2007/05/08 15:58 |
| L4    | 0       | 1 and permission                            | USPAT | OR               | ON      | 2007/05/08 15:58 |
| L7    | 21      | (virtual or online) adj wallet              | USPAT | OR               | ON      | 2007/05/08 17:03 |
| L8    | 8       | L7 and (bill near pay\$)                    | USPAT | OR               | ON      | 2007/05/08 17:03 |
| S1    | 624     | 713/201.cor.                                | USPAT | OR               | OFF     | 2005/01/11 11:46 |
| S2    | 1       | cahill near conor                           | USPAT | OR               | OFF     | 2005/01/11 11:46 |
| S3    | 0       | toomey near christopher                     | USPAT | OR               | OFF     | 2005/01/11 11:47 |
| S4    | 0       | toomey near newell                          | USPAT | OR               | OFF     | 2005/01/11 11:47 |
| S5    | 780     | transaction WITH later WITH time            | USPAT | OR               | ON      | 2005/01/11 12:08 |
| S6    | 9537    | user WITH present                           | USPAT | OR               | ON      | 2005/01/11 11:50 |
| S7    | 1       | S5 same S6                                  | USPAT | OR               | ON      | 2005/01/11 11:50 |
| S8    | 24      | offline near transaction                    | USPAT | OR               | ON      | 2005/01/11 11:51 |
| S9    | 6       | S8 and service near2 provider               | USPAT | OR               | ON      | 2005/01/11 12:09 |
| S10   | 0       | S8 same future                              | USPAT | OR               | ON      | 2005/01/11 11:53 |
| S11   | 7       | S8 and future                               | USPAT | OR               | ON      | 2005/01/11 11:56 |
| S12   | 781     | delay\$ near2 transaction                   | USPAT | OR               | ON      | 2005/01/11 11:56 |
| S13   | 7       | S12 same (service near2 provider)           | USPAT | OR               | ON      | 2005/01/12 10:26 |
| S14   | 3       | transaction near later near point near time | USPAT | OR               | ON      | 2005/01/11 12:09 |
| S15   | 2630    | later near point near time                  | USPAT | OR               | ON      | 2005/01/11 12:09 |
| S16   | 1       | S15 same (service near2 provider)           | USPAT | OR               | ON      | 2005/01/11 12:26 |
| S17   | 111     | S15 and (service near2 provider)            | USPAT | OR               | ON      | 2005/01/11 13:58 |
| S18   | 1886535 | deferred contin\$                           | USPAT | OR               | ON      | 2005/01/11 13:57 |
| S19   | 1880058 | deferred continu\$                          | USPAT | OR               | ON      | 2005/01/11 13:57 |
| S20   | 598785  | deferred continuation                       | USPAT | OR               | ON      | 2005/01/11 13:57 |
| S21   | 38      | deferred near2 continu\$                    | USPAT | OR               | ON      | 2005/01/11 13:57 |
| S22   | 3       | S21 and (service near2 provider)            | USPAT | OR               | ON      | 2005/01/11 14:05 |
| S23   | 1       | "6396805".pn.                               | USPAT | OR               | ON      | 2005/01/11 14:05 |
| S24   | 0       | S23 and permission                          | USPAT | OR               | ON      | 2005/01/11 14:20 |
| S25   | 1       | S23 and service near provider               | USPAT | OR               | ON      | 2005/01/11 15:06 |
| S26   | 14      | certificate WITH authenticated with session | USPAT | OR               | ON      | 2005/01/11 16:25 |
| S27   | 0       | certificate WITH offline WITH authenticat\$ | USPAT | OR               | ON      | 2005/01/11 16:36 |

## EAST Search History

|     |      |  |       |    |    |                  |
|-----|------|--|-------|----|----|------------------|
| S28 | 11   | certificate WITH offline   | USPAT | OR | ON | 2005/01/11 16:36 |
| S29 | 1    | S28 same authenticat\$   | USPAT | OR | ON | 2005/01/11 16:37 |
| S30 | 1    | S29 and offline  | USPAT | OR | ON | 2005/01/11 16:37 |
| S31 | 0    | statement WITH authentact\$ WITH session                               | USPAT | OR | ON | 2005/01/12 10:26 |
| S32 | 1    | statement WITH authenticat\$ WITH session                              | USPAT | OR | ON | 2005/01/12 10:31 |
| S33 | 72   | (client or user) WITH (authenticated near2 session)                    | USPAT | OR | ON | 2005/01/12 10:48 |
| S34 | 1    | S33 same (signed or signature)   | USPAT | OR | ON | 2005/01/12 10:33 |
| S35 | 4539 | (client or user) near2 (present)                                       | USPAT | OR | ON | 2005/01/12 10:33 |
| S36 | 17   | S33 and S35  | USPAT | OR | ON | 2005/01/12 10:40 |
| S37 | 7    | S36 and signature  | USPAT | OR | ON | 2005/01/12 10:34 |
| S38 | 25   | web near service near client   | USPAT | OR | ON | 2005/01/12 10:47 |
| S39 | 2351 | client near1 software  | USPAT | OR | ON | 2005/01/12 10:48 |
| S40 | 102  | S39 same authenticat\$   | USPAT | OR | ON | 2005/01/12 10:48 |
| S41 | 0    | S39 same (authenticated near2 session)                                 | USPAT | OR | ON | 2005/01/12 10:48 |
| S42 | 2    | S39 same (authenticat\$ near2 session)                                 | USPAT | OR | ON | 2005/01/12 10:49 |
| S43 | 5    | live WITH authenticat\$ WITH session                                   | USPAT | OR | ON | 2005/01/12 10:49 |
| S44 | 0    | S40 and S43  | USPAT | OR | ON | 2005/01/12 10:50 |
| S45 | 1    | S39 and S43  | USPAT | OR | ON | 2005/01/12 10:50 |
| S46 | 153  | permission WITH request WITH service                                   | USPAT | OR | ON | 2005/01/12 11:37 |
| S47 | 41   | S39 and S46  | USPAT | OR | ON | 2005/01/12 10:51 |
| S48 | 16   | prov\$ WITH permission WITH request WITH service                       | USPAT | OR | ON | 2005/01/12 11:38 |
| S49 | 0    | (prove or proved or proving) WITH permission WITH request WITH service | USPAT | OR | ON | 2005/01/12 11:53 |
| S50 | 1    | live near1 authenticat\$ near1 session                                 | USPAT | OR | ON | 2005/01/12 11:57 |
| S51 | 1    | deferred near2 authentication  | USPAT | OR | ON | 2005/01/12 12:07 |
| S52 | 661  | authenticat\$ near2 certificate  | USPAT | OR | ON | 2005/01/12 12:08 |
| S53 | 92   | client WITH (authenticat\$ near2 certificate)                          | USPAT | OR | ON | 2005/01/12 12:08 |
| S54 | 9    | client WITH (authenticat\$ near2 certificate) WITH session             | USPAT | OR | ON | 2005/01/12 12:08 |
| S55 | 8    | S54 and web  | USPAT | OR | ON | 2005/01/12 12:08 |

## EAST Search History

|     |       |  |       |    |    |                  |
|-----|-------|--|-------|----|----|------------------|
| S56 | 3     | S55 and provider   | USPAT | OR | ON | 2005/01/12 13:43 |
| S57 | 1     | S56 and (sign or signed or signature)  | USPAT | OR | ON | 2005/01/12 13:41 |
| S58 | 1     | "6640302".pn.  | USPAT | OR | ON | 2005/01/12 13:43 |
| S59 | 1     | S58 and certificate  | USPAT | OR | ON | 2005/01/12 13:50 |
| S60 | 262   | (sign or signed or signing) near3 certificate near3 authority                                  | USPAT | OR | ON | 2005/01/12 13:51 |
| S61 | 13    | S60 same advantag\$  | USPAT | OR | ON | 2005/01/12 14:28 |
| S62 | 3     | S61 same authenticat\$   | USPAT | OR | ON | 2005/01/12 13:51 |
| S63 | 2     | S60 with advantag\$  | USPAT | OR | ON | 2005/01/12 14:55 |
| S64 | 1     | "5699431".pn.  | USPAT | OR | ON | 2005/01/12 14:29 |
| S65 | 1     | S64 and advantag\$   | USPAT | OR | ON | 2005/01/12 14:42 |
| S66 | 165   | certificate WITH (table or tabular)  | USPAT | OR | ON | 2005/01/12 14:42 |
| S67 | 24    | (store or storing or save or saved or saving) WITH certificate WITH (table or tabular)         | USPAT | OR | ON | 2005/01/12 14:48 |
| S68 | 1     | S67 same advantag\$  | USPAT | OR | ON | 2005/01/12 14:57 |
| S69 | 19430 | advantag\$ WITH (table or tabular)   | USPAT | OR | ON | 2005/01/12 14:48 |
| S70 | 1     | S67 and S69  | USPAT | OR | ON | 2005/01/12 14:46 |
| S71 | 1     | "6446206".pn.  | USPAT | OR | ON | 2005/01/12 14:48 |
| S72 | 1     | S71 and table  | USPAT | OR | ON | 2005/01/12 14:48 |
| S73 | 179   | advantag\$ WITH (save or saved or saving) WITH (table or tabular)                              | USPAT | OR | ON | 2005/01/12 14:50 |
| S74 | 0     | S73 and certificate  | USPAT | OR | ON | 2005/01/12 14:49 |
| S75 | 21    | advantag\$ near3 (save or saved or saving) near3 (table or tabular)                            | USPAT | OR | ON | 2005/01/12 14:51 |
| S76 | 1     | S67 with advantag\$  | USPAT | OR | ON | 2005/01/12 14:56 |
| S77 | 0     | ticket near3 (authenticat\$ or validat\$ or check\$) near3 (permission or right) near3 service | USPAT | OR | ON | 2005/01/12 14:57 |
| S78 | 5     | ticket near3 (authenticat\$ or validat\$ or check\$) near3 (permission or right)               | USPAT | OR | ON | 2005/01/12 14:57 |
| S79 | 0     | S78 same advantag\$  | USPAT | OR | ON | 2005/01/12 14:57 |
| S80 | 8     | web with provider with ticket  | USPAT | OR | ON | 2005/01/12 15:07 |
| S81 | 30    | access near2 control near2 ticket  | USPAT | OR | ON | 2005/01/12 15:08 |
| S82 | 0     | S81 WITH advantag\$  | USPAT | OR | ON | 2005/01/12 15:08 |
| S83 | 0     | S81 same advantag\$  | USPAT | OR | ON | 2005/01/12 15:08 |
| S84 | 0     | S81 same web   | USPAT | OR | ON | 2005/01/12 15:08 |
| S85 | 16    | ticket near3 permission  | USPAT | OR | ON | 2005/01/12 15:10 |

## EAST Search History

|      |         |  |       |    |    |                  |
|------|---------|--|-------|----|----|------------------|
| S86  | 0       | S85 same web                             | USPAT | OR | ON | 2005/01/12 15:09 |
| S87  | 1       | S85 and web                              | USPAT | OR | ON | 2005/01/12 15:09 |
| S88  | 1       | "4919545".pn.                            | USPAT | OR | ON | 2005/01/12 16:09 |
| S89  | 1       | S88 and advantag\$                       | USPAT | OR | ON | 2005/01/12 15:10 |
| S90  | 1       | "6640302".pn.                            | USPAT | OR | ON | 2005/01/12 16:09 |
| S91  | 1       | S90 and certificate                      | USPAT | OR | ON | 2005/01/12 17:06 |
| S92  | 1       | certificate near3 table near3 form       | USPAT | OR | ON | 2005/01/12 17:07 |
| S93  | 50      | certificate near3 table                  | USPAT | OR | ON | 2005/01/12 17:07 |
| S94  | 1       | S93 same advantag\$                      | USPAT | OR | ON | 2005/01/12 17:07 |
| S95  | 1       | "6640302".pn.                            | USPAT | OR | ON | 2005/08/03 15:17 |
| S96  | 55      | client near absen\$                      | USPAT | OR | ON | 2005/08/03 15:17 |
| S97  | 0       | S96 same authenticat\$                   | USPAT | OR | ON | 2005/08/03 15:40 |
| S98  | 5       | S96 and authenticat\$                    | USPAT | OR | ON | 2005/08/03 15:40 |
| S99  | 0       | user near "not" near present             | USPAT | OR | ON | 2005/08/03 15:18 |
| S100 | 0       | user near "not"                          | USPAT | OR | ON | 2005/08/03 15:18 |
| S101 | 0       | cleint near "not"                        | USPAT | OR | ON | 2005/08/03 15:18 |
| S102 | 0       | client near "not"                        | USPAT | OR | ON | 2005/08/03 15:18 |
| S103 | 6443    | (user or client) near3 present           | USPAT | OR | ON | 2005/08/03 15:40 |
| S104 | 168     | S103 same authenticat\$                  | USPAT | OR | ON | 2005/08/03 15:41 |
| S105 | 4851    | (user or client) near2 present           | USPAT | OR | ON | 2005/08/03 15:43 |
| S106 | 145     | S105 same authenticat\$                  | USPAT | OR | ON | 2005/08/03 15:41 |
| S107 | 0       | (user or client) with "not" WITH present | USPAT | OR | ON | 2005/08/03 15:43 |
| S108 | 1657161 | "Not"                                    | USPAT | OR | ON | 2005/08/03 15:44 |
| S109 | 0       | S108 near3 client                        | USPAT | OR | ON | 2005/08/03 15:44 |
| S110 | 28      | persistent near cookie                   | USPAT | OR | ON | 2005/08/04 11:17 |
| S111 | 0       | S110 same (present or presence)          | USPAT | OR | ON | 2005/08/04 11:17 |
| S112 | 283     | client WITH without WITH interact\$      | USPAT | OR | ON | 2005/08/04 11:18 |

## EAST Search History

|          |      |   |       |    |    |                  |
|----------|------|---|-------|----|----|------------------|
| S11<br>3 | 5    | S112 same authenticat\$                 | USPAT | OR | ON | 2005/08/04 14:55 |
| S11<br>4 | 1    | S113 and (sign or signing or signature) | USPAT | OR | ON | 2005/08/04 14:36 |
| S11<br>5 | 1    | "6637031".pn.                           | USPAT | OR | ON | 2005/08/04 14:04 |
| S11<br>6 | 1    | S115 and audio                          | USPAT | OR | ON | 2005/08/04 14:07 |
| S11<br>7 | 1    | "6671807".pn.                           | USPAT | OR | ON | 2005/08/04 14:23 |
| S11<br>8 | 1    | S117 and simultan\$                     | USPAT | OR | ON | 2005/08/04 14:18 |
| S11<br>9 | 1    | S117 and encrypt\$                      | USPAT | OR | ON | 2005/08/04 14:20 |
| S12<br>0 | 1    | S117 and memory                         | USPAT | OR | ON | 2005/08/04 14:20 |
| S12<br>1 | 0    | 6874145+.pn.                            | USPAT | OR | ON | 2005/08/04 14:23 |
| S12<br>2 | 1    | "6874145".pn.                           | USPAT | OR | ON | 2005/08/04 14:23 |
| S12<br>3 | 1    | S113 and later                          | USPAT | OR | ON | 2005/08/04 14:38 |
| S12<br>4 | 2532 | later with transaction                  | USPAT | OR | ON | 2005/08/04 14:38 |
| S12<br>5 | 29   | S112 and S124                           | USPAT | OR | ON | 2005/08/04 14:38 |
| S12<br>6 | 10   | S125 and authenticat\$                  | USPAT | OR | ON | 2005/08/04 15:18 |
| S12<br>7 | 1    | "6052785".pn.                           | USPAT | OR | ON | 2005/08/04 14:55 |
| S12<br>8 | 1    | S127 and interaction                    | USPAT | OR | ON | 2005/08/04 14:56 |
| S12<br>9 | 1    | S127 and without                        | USPAT | OR | ON | 2005/08/04 14:59 |
| S13<br>0 | 1    | S127 and authenticat\$                  | USPAT | OR | ON | 2005/08/04 15:00 |
| S13<br>1 | 1    | "6640302".pn.                           | USPAT | OR | ON | 2005/08/04 15:18 |
| S13<br>2 | 1    | "6396805".pn.                           | USPAT | OR | ON | 2005/08/04 15:18 |
| S13<br>3 | 1    | "5699431".pn.                           | USPAT | OR | ON | 2005/08/04 15:19 |
| S13<br>4 | 1    | "6516316".pn.                           | USPAT | OR | ON | 2005/08/04 15:19 |

## EAST Search History

|          |    |  |       |    |    |                  |
|----------|----|--|-------|----|----|------------------|
| S13<br>5 | 1  | "4919545".pn.  | USPAT | OR | ON | 2005/08/04 15:19 |
| S13<br>6 | 18 | automatic near bill near pay\$                           | USPAT | OR | ON | 2006/02/14 08:37 |
| S13<br>7 | 2  | (automatic near bill near pay\$).ab.                     | USPAT | OR | ON | 2006/02/13 18:06 |
| S13<br>8 | 6  | online near bill near payment                            | USPAT | OR | ON | 2006/02/13 18:03 |
| S13<br>9 | 2  | S137 and automatic\$                                     | USPAT | OR | ON | 2006/02/13 18:06 |
| S14<br>0 | 5  | S138 and automatic\$                                     | USPAT | OR | ON | 2006/02/13 18:14 |
| S14<br>1 | 18 | automatic\$ near bill near payment                       | USPAT | OR | ON | 2006/02/13 18:14 |
| S14<br>2 | 15 | (virtual or online) adj wallet                           | USPAT | OR | ON | 2006/02/14 08:38 |
| S14<br>3 | 4  | S142 same (credit adj card)                              | USPAT | OR | ON | 2006/02/14 08:45 |
| S14<br>4 | 0  | S143 and (bill near pay\$)                               | USPAT | OR | ON | 2006/02/14 08:45 |
| S14<br>5 | 6  | S142 and (bill near pay\$)                               | USPAT | OR | ON | 2006/02/14 08:58 |
| S14<br>6 | 4  | S143 and (credit adj card)                               | USPAT | OR | ON | 2006/02/14 08:45 |
| S14<br>7 | 0  | "6970836".pn. and (bill near pay\$)                      | USPAT | OR | ON | 2006/02/14 08:57 |
| S14<br>8 | 32 | (auto or automatic or automated)<br>near bill near pay\$ | USPAT | OR | ON | 2006/02/14 10:01 |
| S14<br>9 | 2  | S142 and S148  | USPAT | OR | ON | 2006/02/14 09:01 |
| S15<br>0 | 9  | S148 WITH enroll\$                                       | USPAT | OR | ON | 2006/02/14 09:32 |
| S15<br>1 | 9  | S148 and authenticat\$                                   | USPAT | OR | ON | 2006/02/14 10:01 |
| S15<br>2 | 1  | "5913202".pn.  | USPAT | OR | ON | 2007/05/03 14:41 |
| S15<br>3 | 1  | "5913202".pn. and authenticat\$                          | USPAT | OR | ON | 2007/05/03 14:41 |